

## Claims

- [c1] 1.A medical implant for implantation in a bodily vessel, the implant having a flow passage therethrough, the implant comprising a tungsten–rhenium alloy.
- [c2] 2.The medical implant of claim 1 in the form of a stent.
- [c3] 3. The medical implant of claim 2 wherein the tungsten–rhenium alloy consists essentially of tungsten and rhenium.
- [c4] 4. The medical implant of claim 3 wherein the tungsten is present in an amount ranging from about 75 weight percent to about 99 weight percent.
- [c5] 5. The medical implant of claim 3 wherein the tungsten is present in an amount ranging from about 75 weight percent to about 99 weight percent.
- [c6] 6. The medical implant of claim 5 wherein the rhenium is present in an amount ranging from about 25 weight percent to about 1 weight percent.
- [c7] 7. The medical implant of claim 1 wherein the modulus of elasticity is at least 400 GPa.
- [c8] 8. The medical implant of claim 2 having a sidewall and a plurality of openings therein, the implant having been made from a sheet of material or from a tube.
- [c9] 9. A medical implant for implantation in a bodily vessel, the implant having a flow passage therethrough, the implant comprising molybdenum TZM alloy.
- [c10] 10. The medical implant of claim 9 in the form of a stent.
- [c11] 11. The medical implant of claim 9 wherein the modulus of elasticity is at least 300 GPa.
- [c12] 12. The medical implant of claim 9 having a sidewall and a plurality of openings therein, the implant having been made from a sheet of material or from a tube.
- [c13] 13. A stent manufactured from a sheet of metal or from a metal tube, the metal having a modulus of elasticity of 300 GPa or greater.
- [c14] 14. The stent of claim 13 wherein the modulus of elasticity is 400 GPa or

greater.

- [c15] 15. The stent of claim 14 wherein the stent comprises a tungsten–rhenium alloy.
- [c16] 16. The stent of claim 13 wherein the metal consists essentially of molybdenum.
- [c17] 17. The stent of claim 13 wherein the metal consists essentially of molybdenum TZM alloy.
- [c18] 18. The stent of claim 13 comprising molybdenum TZM alloy.
- [c19] 19. The stent of claim 13 comprising molybdenum.
- [c20] 20. The stent of claim 14 comprising a tungsten–rhenium alloy.
- [c21] 21. The stent of claim 14 consisting essentially of a tungsten–rhenium alloy.
- [c22] 22. The stent of claim 21 wherein the tungsten is present in an amount ranging from about 75 weight percent to about 99 weight percent.
- [c23] 23. A medical implant comprising TZM alloy.
- [c24] 24. The medical implant of claim 23 in the form of a stent.